

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 27 AND HENDERSON CORNER ROAD IN MONTGOMERY COUNTY. MD 27 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

AN EIGHT-PHASE, FULLY ACTUATED NEMA CONTROLLER HOUSED IN A BASE MOUNTED CABINET IS BEING USED. THE CONTROLLER CURRENTLY OPERATES AS A THREE-PHASE, SEMI-TRAFFIC-ACTUATED CONTROLLER WITH AN EXCLUSIVE LEFT TURN PHASE FOR SOUTHBOUND MD 27, A RIGHT TURN OVERLAP PHASE FOR HENDERSON CORNER ROAD, AND AN ALTERNATE PEDESTRIAN PHASE ACROSS THE EAST LEG OF THE INTERSECTION. THIS OPERATION WILL REMAIN THE SAME.

PHASING CHART

PHASING WILL NOT CHANGE

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR
ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	2 CY	TEST PIT EXCAVATION
5005	70 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING
8007	2 EA	FURNISH AND INSTALL 12 IN. X 30 FT. STRAIN POLE
8011	15 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
8013	1 EA	FURNISH AND INSTALL 15 FT. STREET LIGHTING ARM FOR SIGNAL POLE
8014	1 EA	FURNISH AND INSTALL 250 WATT HPSV LUMINAIRE
8048	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
8052	200 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
8053	150 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
8057	6 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8060	40 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
8068	80 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT, FLEXIBLE, NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8072	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8080	2 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER X 10 FT. LENGTH
8081	690 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR ALUMINUM SHIELDED
8084	50 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR NO. 14 AWG
8085	440 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR NO. 14 AWG
8086	220 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR NO. 12 AWG
8087	1800 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN 1/4 IN. FLEXIBLE TUBING (NO. 14 AWG)
8088	580 LF	FURNISH AND INSTALL SAW CUT FOR LOOP DETECTOR
8089	180 LF	FURNISH AND INSTALL 1/4 IN. STEEL SPAN WIRE
8090	180 LF	FURNISH AND INSTALL 3/8 IN. STEEL SPAN WIRE
8091	20 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
---	1 EA	FURNISH AND INSTALL R3-5(2) SIGN (30" X 54") SPAN WIRE MOUNT
---	1 EA	FURNISH AND INSTALL R3-3(B) SIGN (30" X 30") SPAN WIRE MOUNT
---	1 EA	FURNISH AND INSTALL R6-6(MOD) SIGN (54" X 30") SPAN WIRE MOUNT
---	2 EA	FURNISH AND INSTALL D3-2 DUAL FACE SIGN "HENDERSON CORNER RD." (VAR. X 16") SPAN WIRE MOUNT
---	840 LF	PULL BACK AND REINSTALL EXISTING CABLE

EQUIPMENT LIST "A"

A. APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

CONTACT PERSONS FOR DISTRICT 3 ARE AS FOLLOWS:

MR. LEE STARKLOFF
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(301) 513-7318

MR. RALEIGH MEDLEY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(301) 513-7304

MR. AUGIE REBISH
ASSISTANT DISTRICT ENGINEER - UTILITIES
(301) 513-7350

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

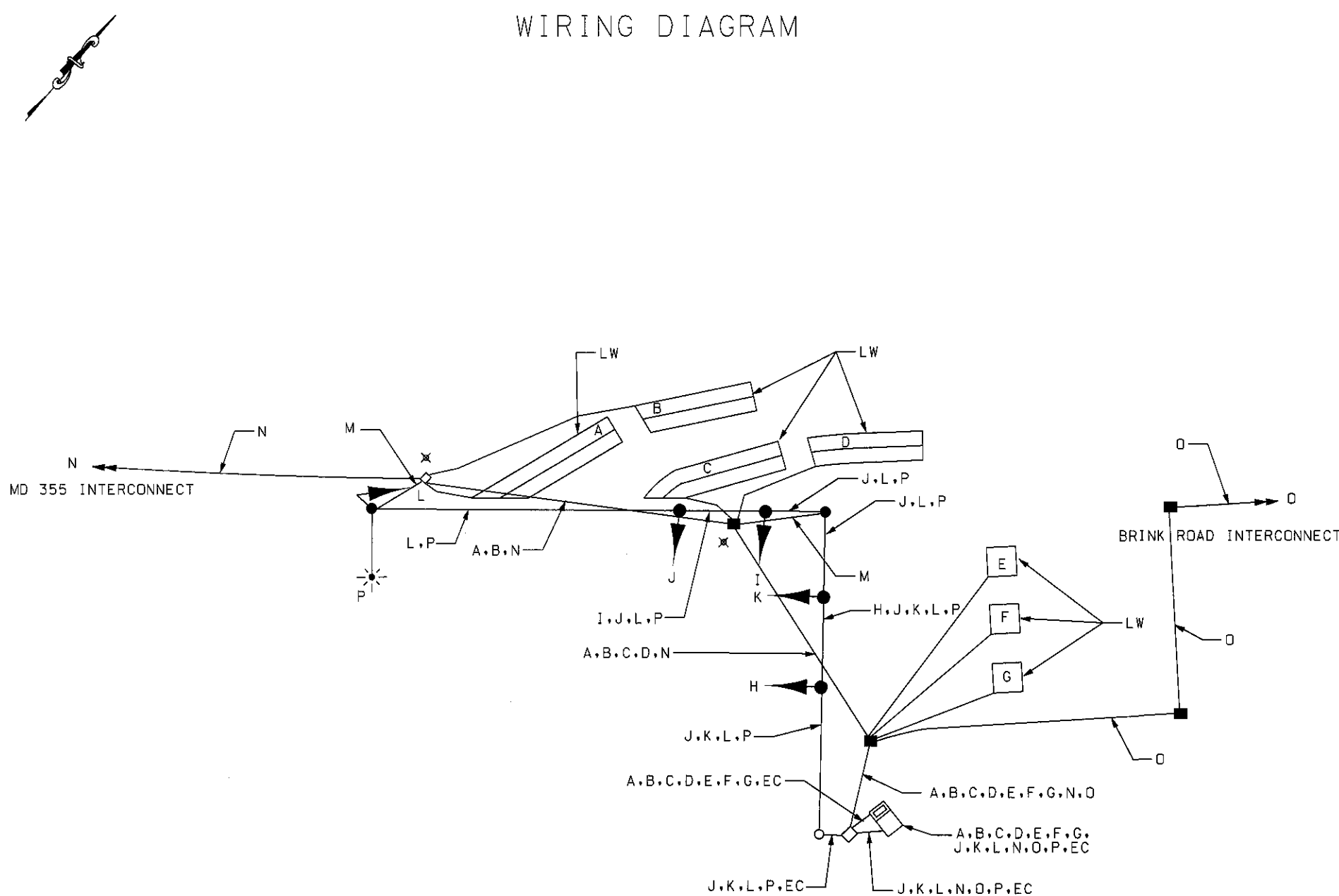
MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

WIRING DIAGRAM



WIRING KEY

- A-G 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
- H-I 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- J-L 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- M STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- N-O EXISTING 12-PAIR COMMUNICATION CABLE (INTERCONNECT) UNDERGROUND
- P 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
- EC EXISTING CABLE
- LW LOOP WIRE (NO. 14 A.W.G.)
- X GROUND ROD

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		
ALL SIGNAL EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR		

TRAFFIC CONCEPTS, INC.

325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION
MD 27 AND HENDERSON CORNER ROAD

DRAWN BY: <u>M.HOWELL</u>	F.A.P. NO. _____	TS NO. <u>3404 A G1</u>	SHEET NO. <u>2</u> OF <u>2</u>
CHECKED BY: <u>T.ZAYDEL</u>	S.H.A. NO. _____	T.I.M.S. NO. _____	
SCALE: <u>NONE</u>	COUNTY: <u>MONTGOMERY</u>	LOG MILE: <u>15602760.12</u>	
DATE: <u>10-02</u>			